



#6
4-14-04

501.39619X00

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Atsushi SHIMODA et al.
Serial No.: 09/783,604
Filed: February 15, 2001
For: **METHOD FOR ANALYZING CIRCUIT PATTERN DEFECTS
AND A SYSTEM THEREOF**
Group: 2623
Examiner: Virginia M. Kibler

SUBMISSION OF FORMAL DRAWINGS

Assistant Commissioner of Patents
Washington, D.C. 20231

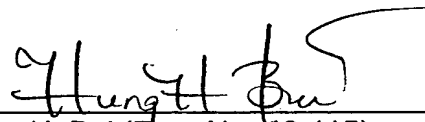
April 2, 2004

Applicants submit herewith eleven (11) sheets of Formal Drawings in connection with the above-identified application.

Respectfully submitted,

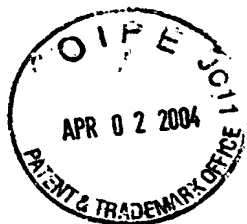
ANTONELLI, TERRY, STOUT & KRAUS, LLP

By


Hung H. Bui (Reg. No. 40,415)
Attorney for Applicant(s)

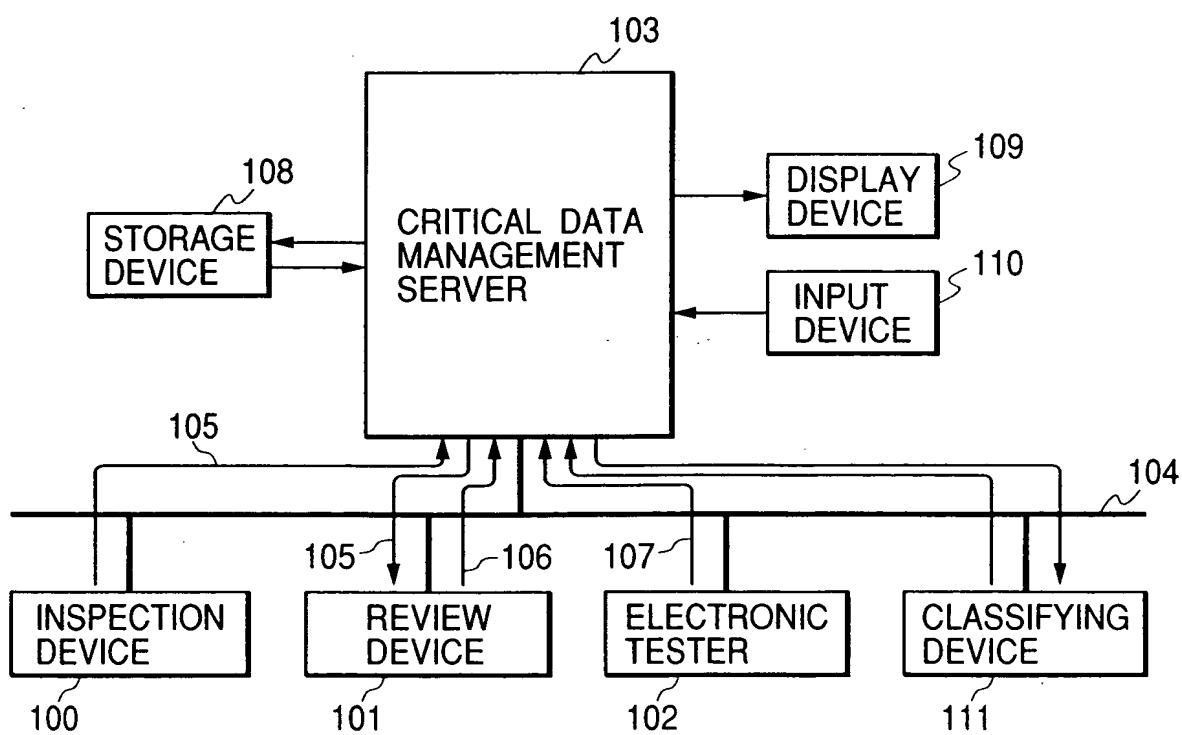
HHB:btd

1300 North Seventeenth Street, Suite 1800
Arlington, Virginia 22209
Tel.: (703) 312-6600
Fax: (703) 312-6666



1 / 11

FIG. 1



2 / 11

FIG. 2

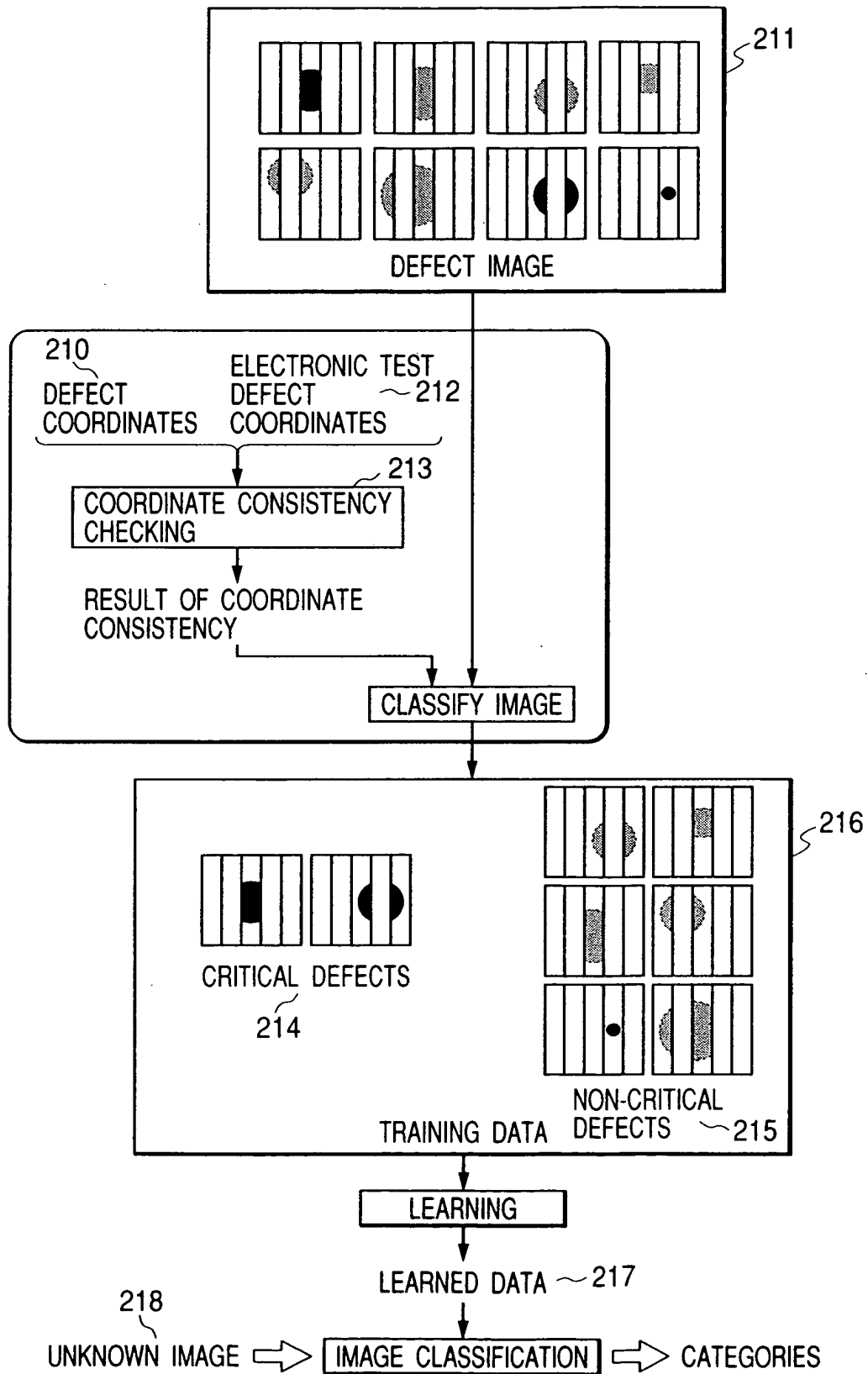


FIG. 3

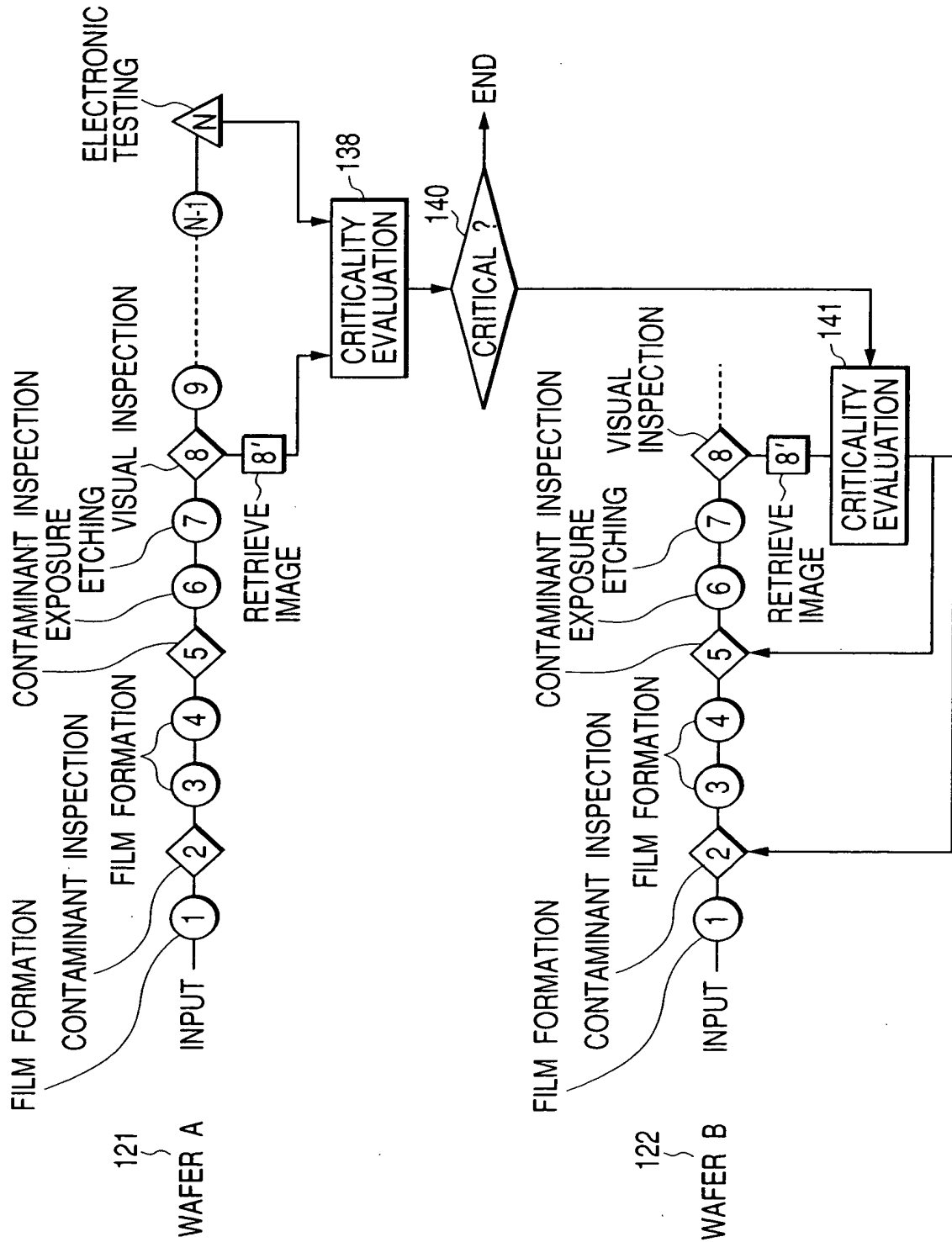
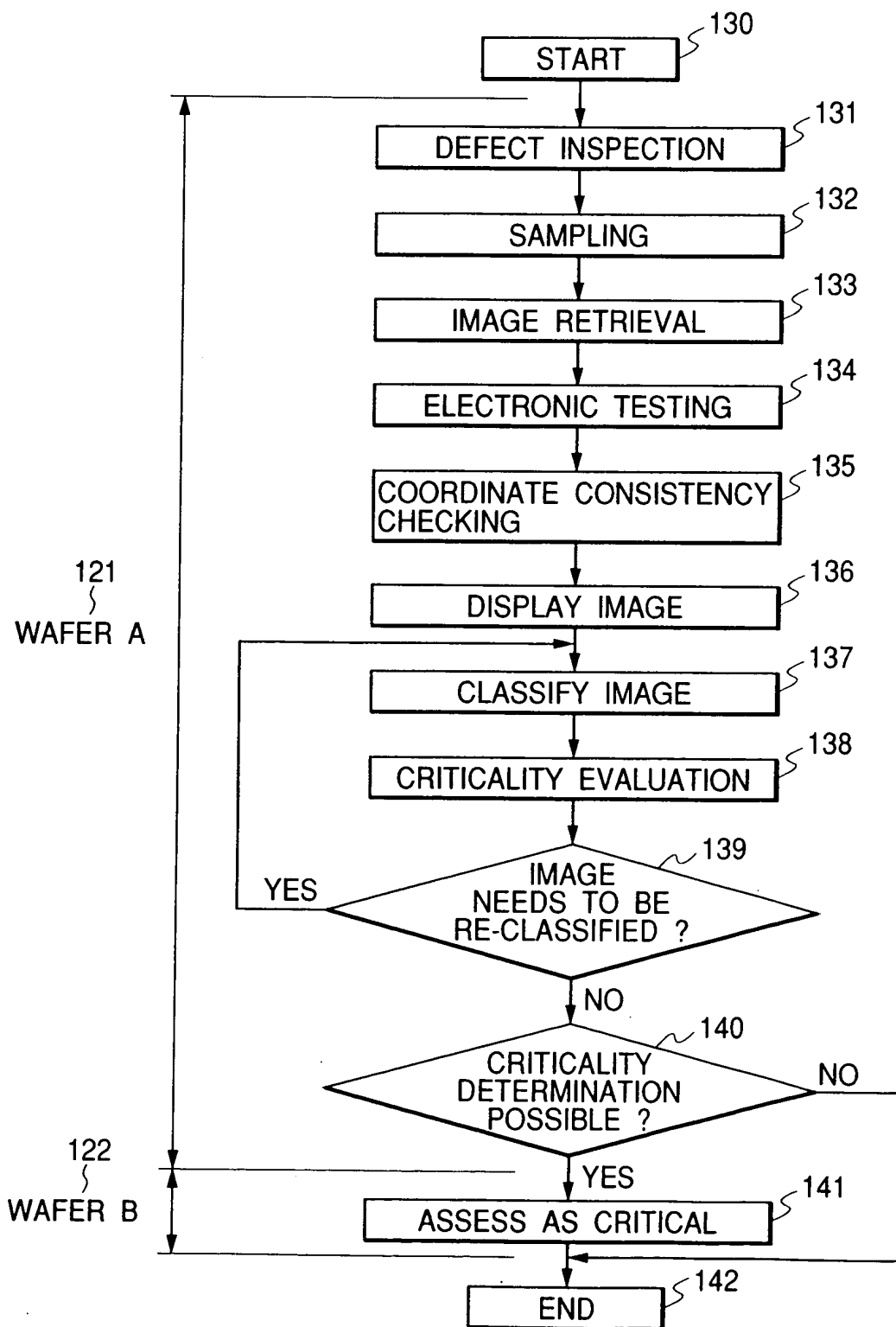


FIG. 4



5/11

FIG. 5

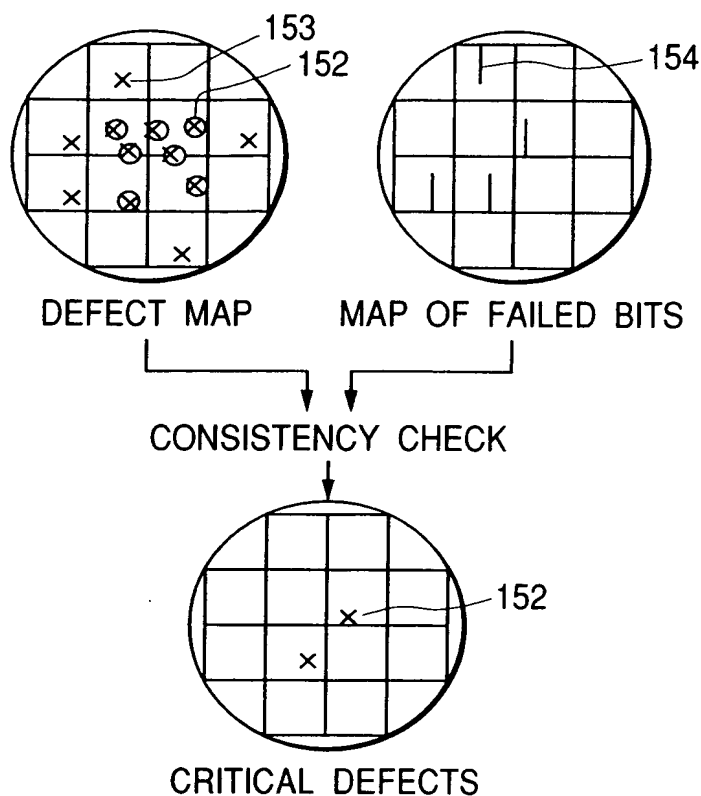


FIG. 6

160 DEFECT NUMBER	161 CHIP COORDINATES	162 DEFECT COORDINATES	163 SAMPLING FLAG	164 IMAGE NAME	165 TEST RESULT
1	(2, 0)	(ΔX_1 , ΔY_1)	0		G
2	(0, 1)	(ΔX_2 , ΔY_2)	0		G
3	(1, 1)	(ΔX_3 , ΔY_3)	1	IMAGE 3	N
4	(2, 1)	(ΔX_4 , ΔY_4)	1	IMAGE 4	N
5	(0, 2)	(ΔX_5 , ΔY_5)	0		G
6	(1, 2)	(ΔX_6 , ΔY_6)	1	IMAGE 6	G
7	(1, 2)	(ΔX_7 , ΔY_7)	1	IMAGE 7	G
8	(1, 2)	(ΔX_8 , ΔY_8)	1	IMAGE 8	G
9	(2, 2)	(ΔX_9 , ΔY_9)	1	IMAGE 9	N
10	(2, 2)	(ΔX_{10} , ΔY_{10})	1	IMAGE 10	N
11	(3, 2)	(ΔX_{11} , ΔY_{11})	0		G
12	(1, 3)	(ΔX_{12} , ΔY_{12})	0		N

FIG. 7(a)

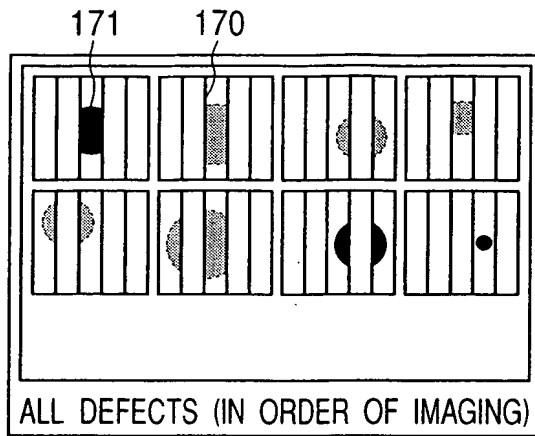


FIG. 7(b)

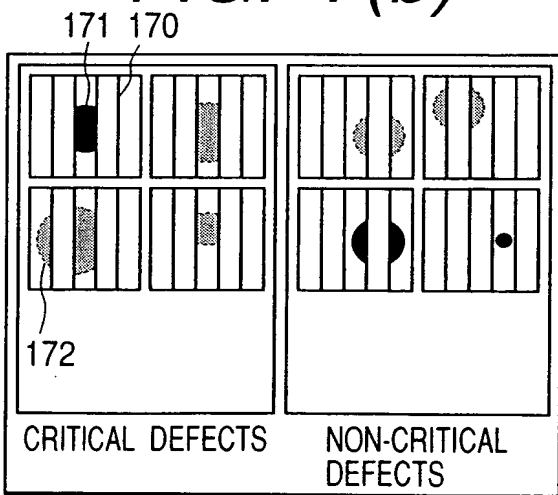


FIG. 7(c)

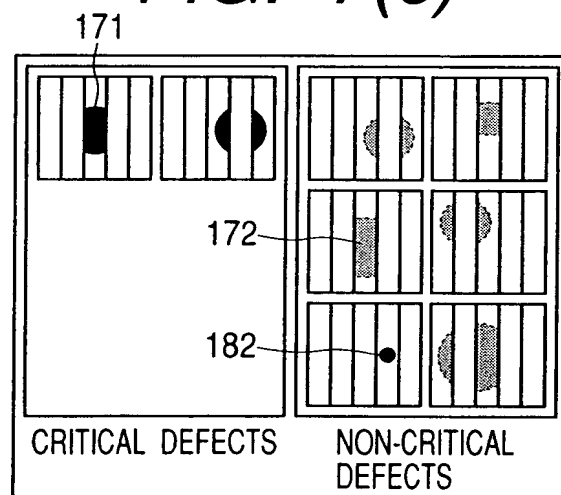


FIG. 9(a)

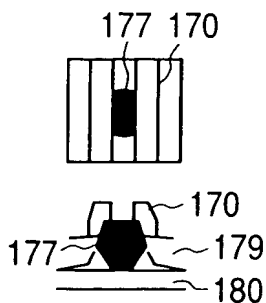


FIG. 9(b)

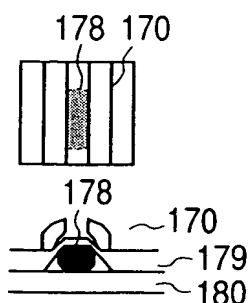
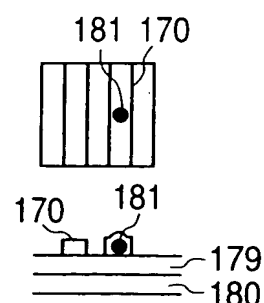


FIG. 9(c)





7/11

FIG. 8

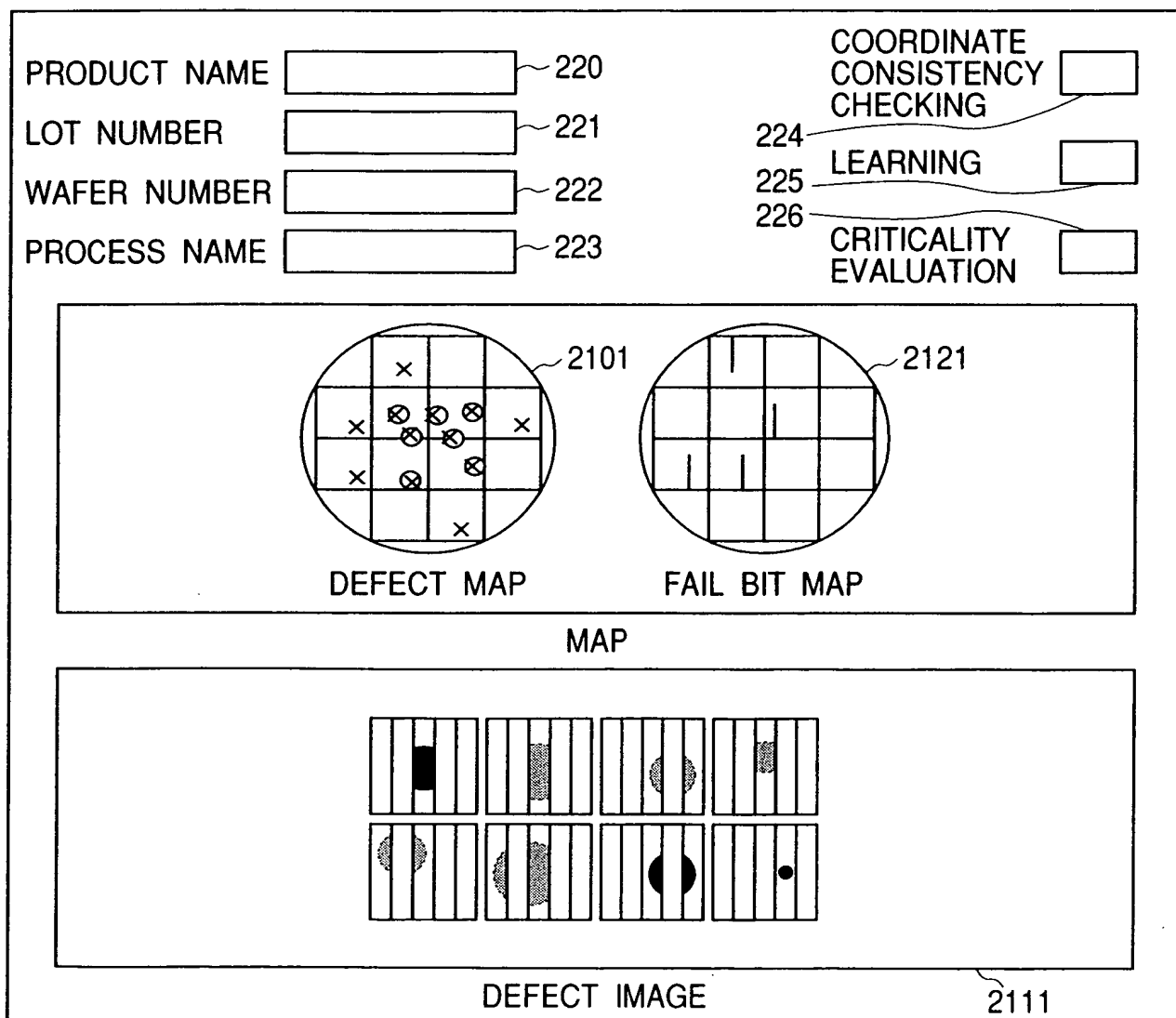


FIG. 10(a)

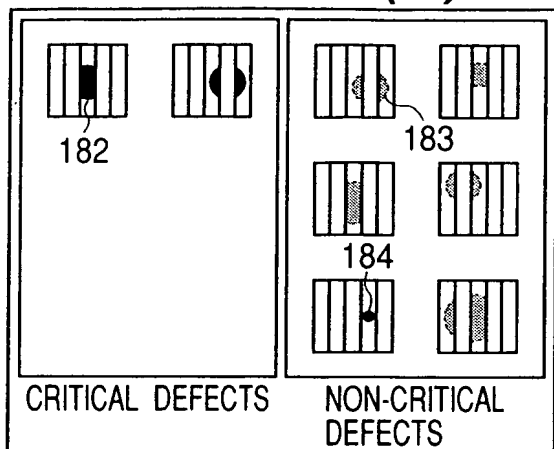


FIG. 10(b)

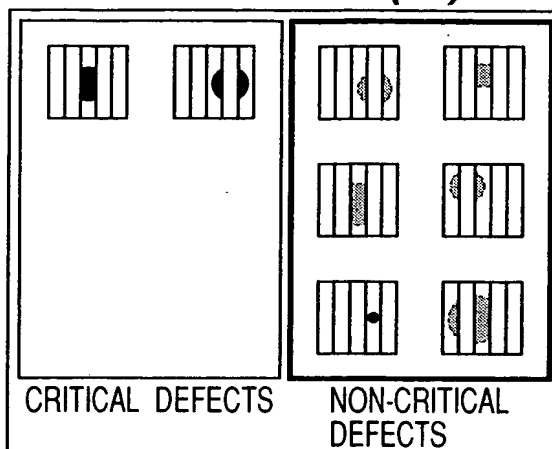


FIG. 10(c)

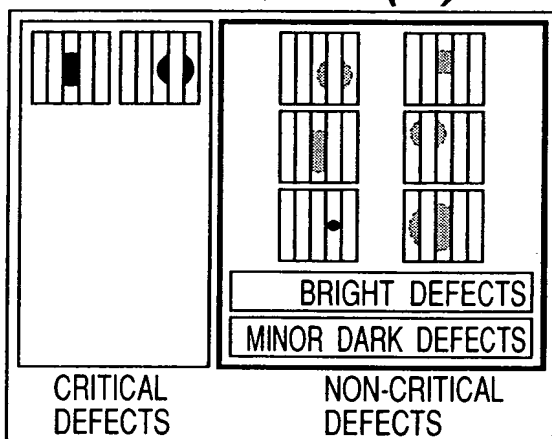


FIG. 10(d)

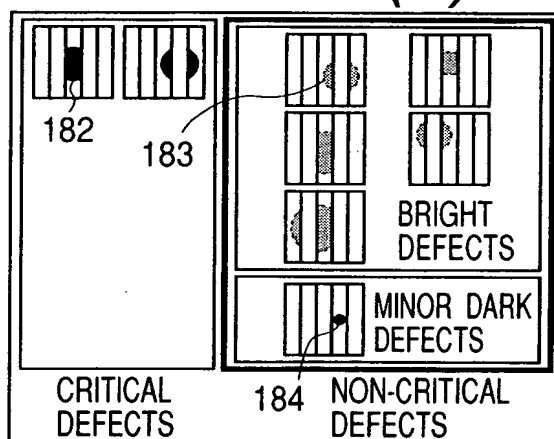


FIG. 11

DEFECT NUMBER	CHIP COORDINATES	DEFECT COORDINATES	SAMPLING FLAG	IMAGE NAME	TEST RESULT	IMAGE CLASSIFICATION
1	(2, 0)	(ΔX_1 , ΔY_1)	0		G	G
2	(0, 1)	(ΔX_2 , ΔY_2)	0		G	G
3	(1, 1)	(ΔX_3 , ΔY_3)	1	IMAGE 3	N	N
4	(2, 1)	(ΔX_4 , ΔY_4)	1	IMAGE 4	N	N
5	(0, 2)	(ΔX_5 , ΔY_5)	0		G	G
6	(1, 2)	(ΔX_6 , ΔY_6)	1	IMAGE 6	G	G
7	(1, 2)	(ΔX_7 , ΔY_7)	1	IMAGE 7	G	G
8	(1, 2)	(ΔX_8 , ΔY_8)	1	IMAGE 8	G	G
9	(2, 2)	(ΔX_9 , ΔY_9)	①	IMAGE 9	N	N
10	(2, 2)	(ΔX_{10} , ΔY_{10})	1	IMAGE 10	N	N
11	(3, 2)	(ΔX_{11} , ΔY_{11})	0		G	G
12	(1, 3)	(ΔX_{12} , ΔY_{12})	0		N	N



9 / 11

FIG. 12(a)

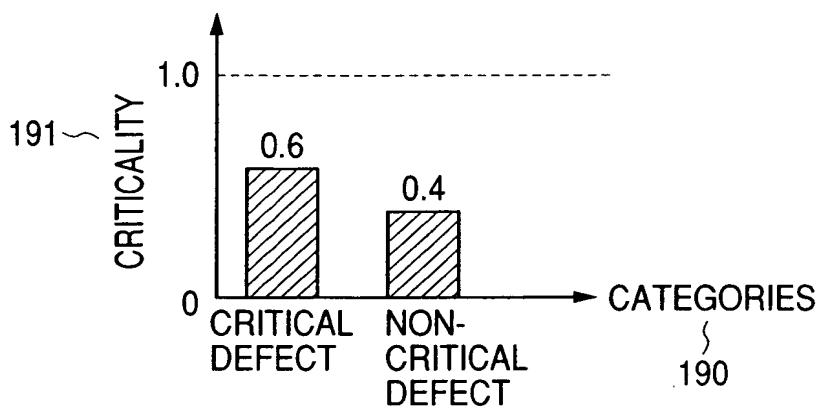
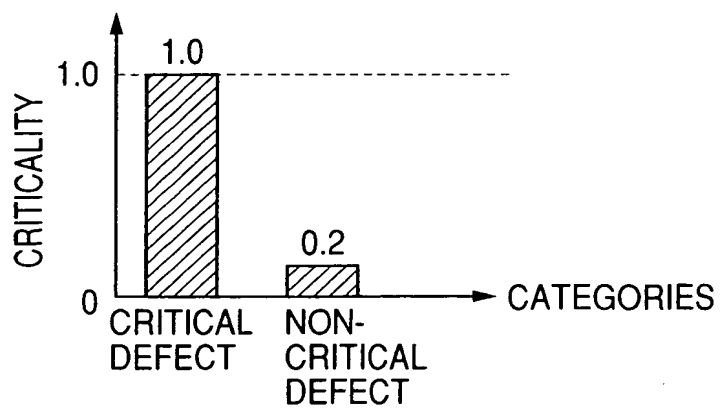


FIG. 12(b)



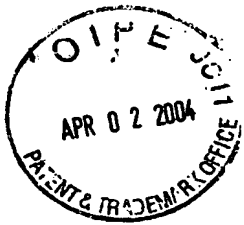


FIG. 13

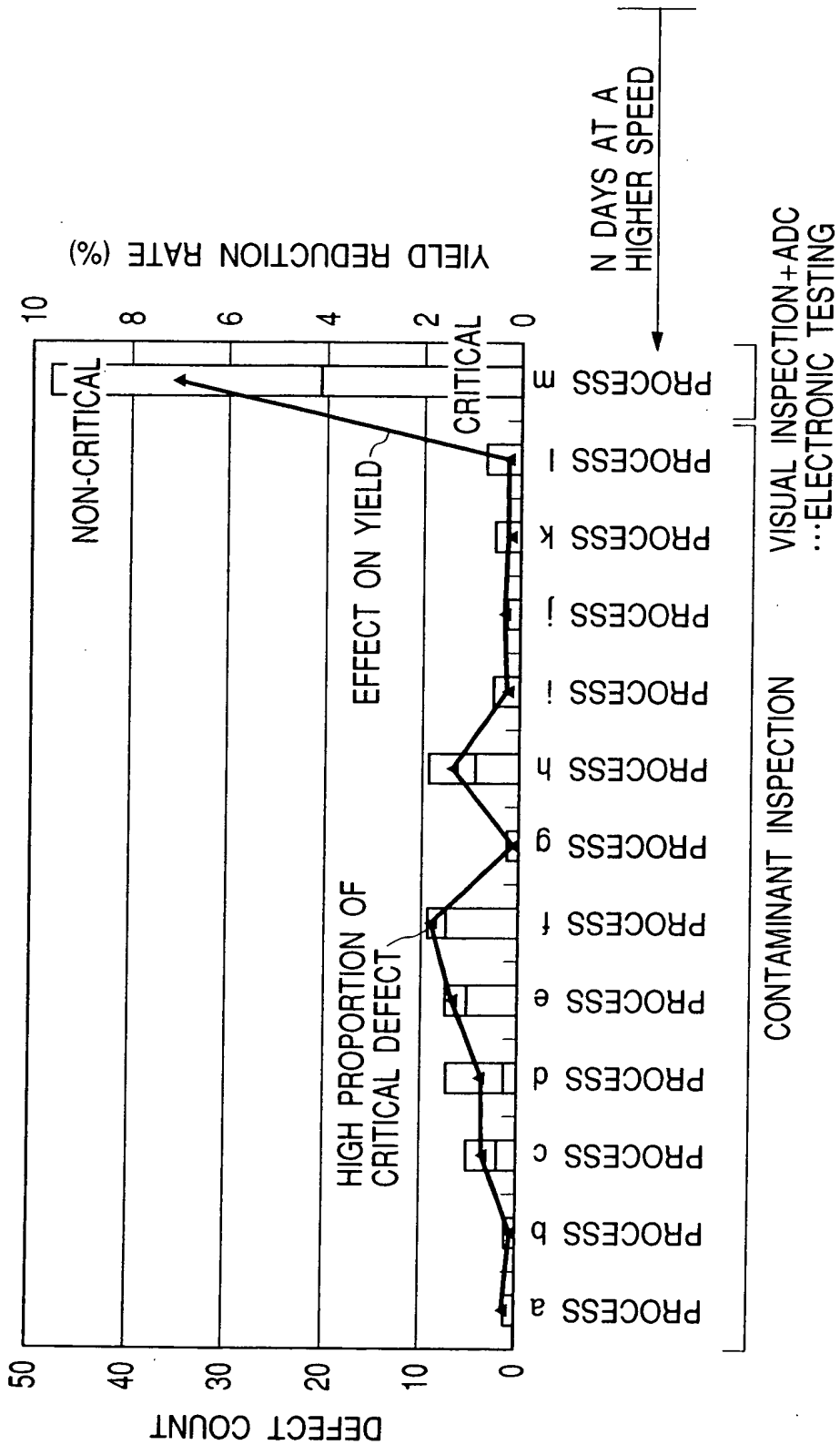


FIG. 14

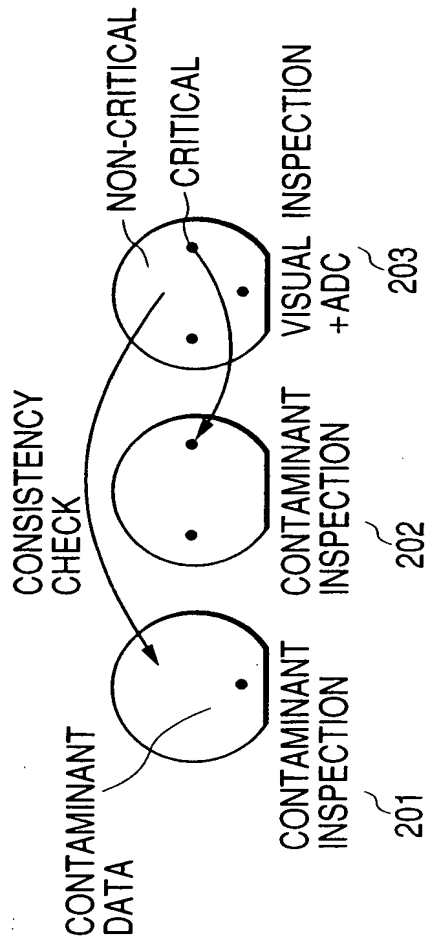


FIG. 15

